

Fig. 1

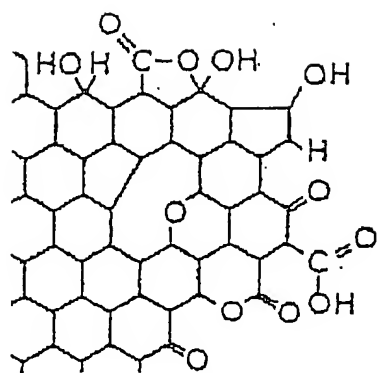
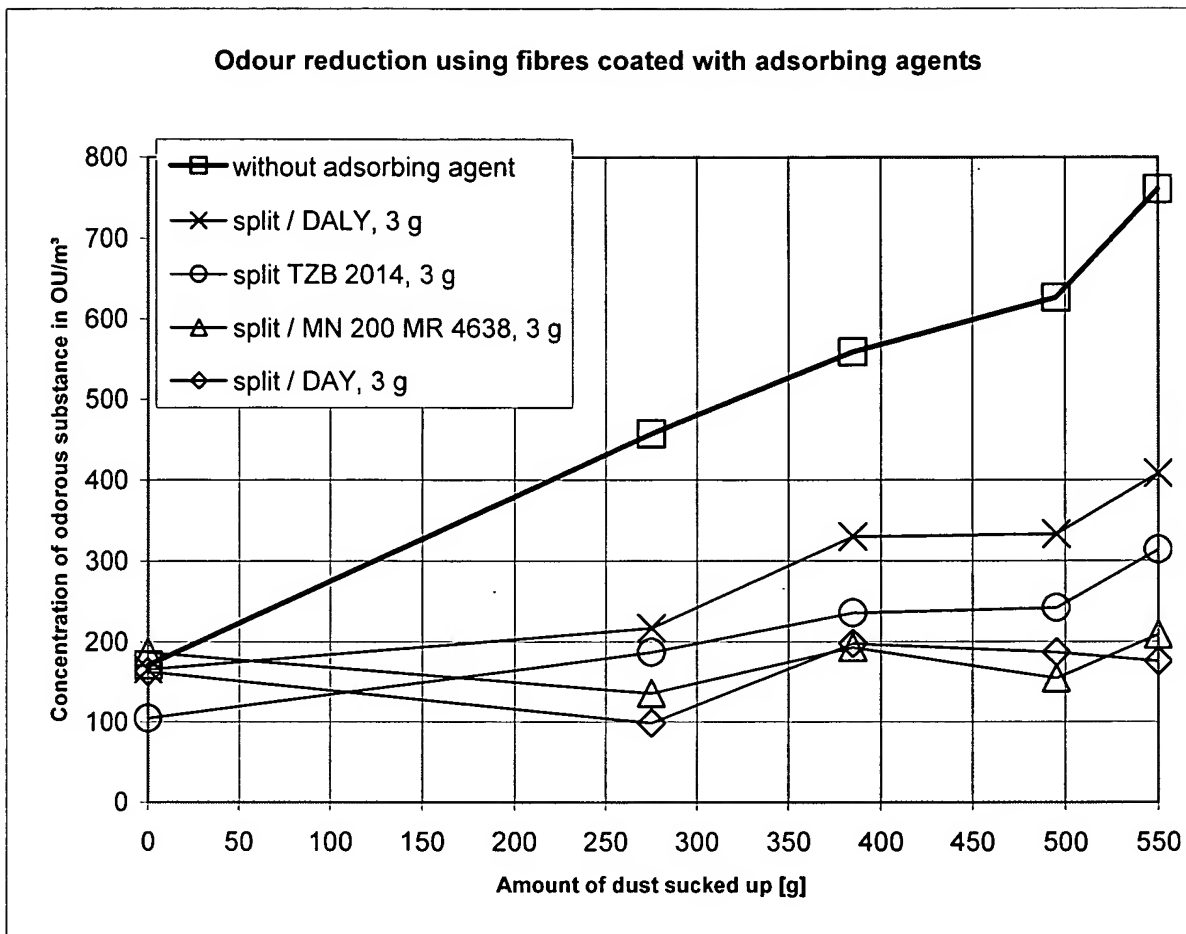


Figure 2



Amount of dust in g	0	275	385	495	550
split / DALY, 3 g	166	217	330	333	408
split / MN 200 MR 4638, 3 g	187	136	193	155	209
without adsorbing agent	171	457	559	627	761
split / DAY, 3 g	163	99	198	187	176
split TZB 2014, 3 g	105	187	236	242	314

Figure 3

Test series	Adsorption material		Adsorbing agent				Efficiency (%)	
	Type	Trade name Manufacturer	Supporting material	Amount of adsorbing agent used in the dust collection chamber (g)	Coating (%)	Amount of adsorbing agent in the dust collection chamber (g)	with 275 g dust	with 550 g dust
X	bamboo active charcoal	BW-Pulver, Aqua Air	split fibres 5 mm	2,5	12	0,30	72	76
X	wood active charcoal	HP5-Pulver Aqua Air Adsorbens	split fibres 5 mm	5	5	0,25	66	79
X	coconut shell active charcoal	CP2-Pulver Aqua Air Adsorbens	split fibres 5 mm	10	4	0,40	77	63
XI	wood active charcoal	HP5-Pulver Aqua Air Adsorbens	split fibres 5 mm	2,5	5	0,13	54	54
IX	CBP	CBP Kunz	split fibres 5 mm	10	3	0,30	69	63
XII	Zeolite 7,8 ; modulus 300	DAY Degussa	split fibres 5 mm	3	10	0,30	78	78
XII	Zeolite 7,6 x 6,4 ; modulus 200	TZB 2014 TRICAT	split fibres 5 mm	3	10	0,30	59	59
XII	Zeolite 7,8 ; modulus 100	DALY TRICAT	split fibres 5 mm	3	10	0,30	53	46
XIV	Zeolite 5,5 ; modulus 1000	TZP 9024 TRICAT	split fibres 5 mm	3	10	0,30	29	21
XIV	SDVB, macroporous	XAD 1600 Rohm & Haas	split fibres 5 mm	3	13	0,39	74	46
XII	SDVB, macroporous	MN200 MR4638 Puroite	split fibres 5 mm	3	10	0,30	70	73
XIX	SDVB, macroporous	MN200 MR4638 Puroite	macroporous polymer XAD1600 Rohm & Haas	1,7	70	1,7	77	84

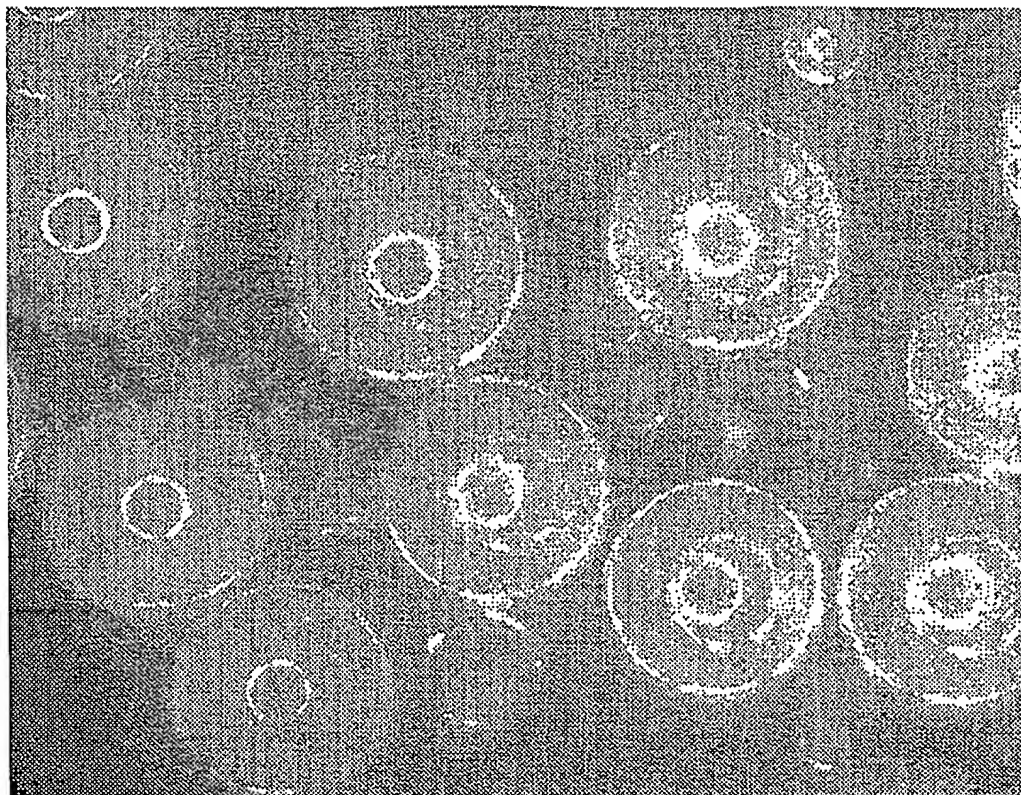


Fig. 4A

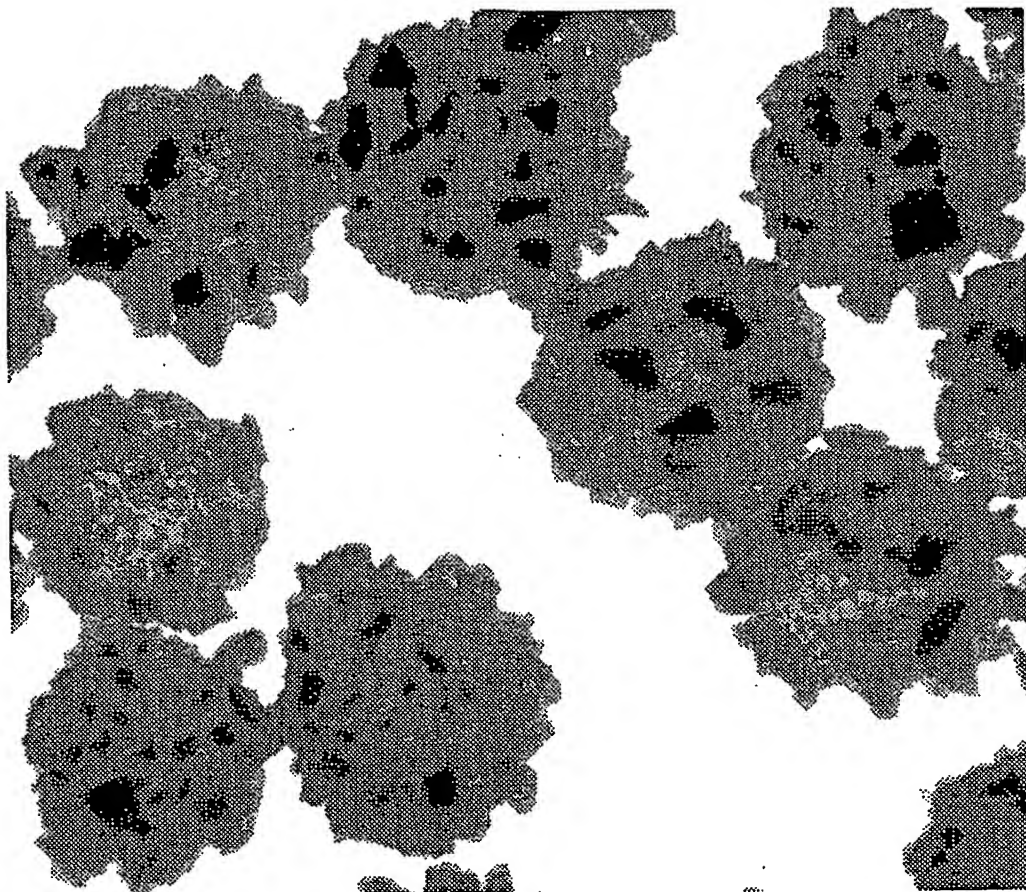


Fig. 4B